

# ORION DEHUMIDIFIER

## SPECIFICATIONS

| SPECIFICATIONS                | ORION                |
|-------------------------------|----------------------|
| Model No.                     | 10270GR-US           |
| Height                        | 44" (1110mm)         |
| Width                         | 25" (630mm)          |
| Depth                         | 22" (540mm)          |
| Weight                        | 165 lbs (75kg)       |
| Voltage                       | 110 V                |
| Phase                         | 1                    |
| Frequency                     | 60 Hz                |
| Current                       | 8 A                  |
| Power                         | 900W                 |
| Airflow - High Speed          | 538cfm (914m3/hr)    |
| Airflow - Low Speed           | 437cfm (743m3/hr)    |
| Noise Level                   | 57 dba               |
| Refrigerant                   | R407c                |
| Effective Volume              | 10,594 cu.ft (300m3) |
| Typical Extraction            | 105 ppd              |
| Minimum Operating Temperature | 33°F (1°C)           |
| Maximum Operating Temperature | 105°F (40°C)         |

| FEATURES                              | ORION      |
|---------------------------------------|------------|
| MODEL NO.                             | 10270GR-US |
| On / Off Control                      | ✓          |
| Temperature Sensitive Defrost Control | ✓          |
| Compressor Type                       | Rotary     |
| Fitted Mains GFI Plug                 | ✓          |
| Rugged Wheels                         | ✓          |
| Reverse Cycle Defrost System          | ✓          |
| 25' Length Power Cord                 | ✓          |
| Epoxy Powder Coating                  | ✓          |
| Quiet Operation                       | ✓          |
| Low Amp Draw                          | ✓          |
| Integral Condensate Pump              | ✓          |
| Pump Purge Switch                     | ✓          |
| Quick Release Hose Coupling           | ✓          |
| 25' Length of PVC Drain Hose          | ✓          |
| 2 Stage Cooling                       | ✓          |
| Washable Filter                       | ✓          |
| Hours Run Meter                       | ✓          |
| Power Cord Wraps                      | ✓          |
| Optional Duct attachment              | ✓          |

## APPLICATION

The EIPL Orion Professional Dehumidifier is the ideal unit for commercial and residential work. Its compact size permits one man operation, yet has the capacity to handle several room-size areas at a time. Best of all it's affordably priced within the budget of most restoration specialists

## KEY DESIGN FEATURES

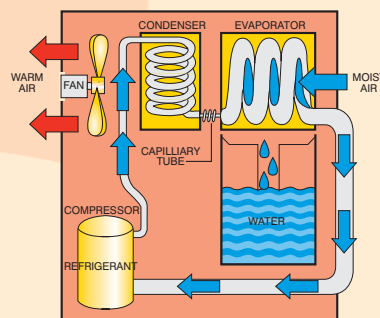
- High Capacity.
- High efficiency, Low Amp Draw Rotary Compressor.
- 2 stage air cooling with "Air to Air" heat exchange.
- High Static Backward Curved Fan.
- Extra long power cord complete with A GFI Plug.
- Temperature Sensitive Defrost control for optimum performance.
- Effective, reverse cycle defrosting feature which automatically melts away frost buildup providing effective operation at low ambient temperatures.
- Rugged, epoxy powder-coated steel chassis and housing.
- Washable Air Filter.
- Integral Condensate Pump with Purge Feature.



**A FULL RANGE OF, HIGH CAPACITY, LOW TEMPERATURE DEHUMIDIFIERS FOR WATER DAMAGE RESTORATION**

## HOW A DEHUMIDIFIER WORKS

1. Air is drawn into the unit by a fan
2. Air passes over a cold surface
3. As the air is cooled, it's moisture condenses
4. Water falls into the container
5. Air is re-heated by the heat recovery system
6. Air passes back into room 2°C warmer and considerably dryer
7. Defrost system automatically de-ices unit as necessary
8. Unit switches off automatically when container is full
9. When the unit achieves the selected level of dryness it switches off automatically



## PROVEN PERFORMANCE

The EIPL Orion Dehumidifier is a rugged, yet mobile, piece of equipment that will operate under extreme conditions and pull large amounts of moisture from the air. The Orion incorporates an "Air To Air" Heat Exchange which provides a secondary level of pre-cooling. The high capacity backward curved fan will maximize air delivery over long distances. Whenever there is a need for fast dependable, energy-efficient drying, EIPL can provide the answer. The high efficiency Rotary compressor ensures the maximum extraction with the lowest running costs.

| APPLICATIONS          | ORION      |
|-----------------------|------------|
| MODEL NO.             | 10270GR-US |
| Flood & Restoration   | ✓          |
| Roof Leaks            | ✓          |
| Basements / Cellars   | ✓          |
| Rental Yards          | ✓          |
| Vehicle Storage       | ✓          |
| Hotels / Guest Houses | ✓          |
| Stores                | ✓          |
| Laboratories          | ✓          |
| Offices               | ✓          |

## THE PROBLEM

EIPL is a recognized world wide supplier of flood restoration drying equipment. We offer a variety of dehumidifiers and air movers to remove water and assist with drying areas after water damage. Following a flood, whether it is in your basement or office, it's vitally important to restore the damaged area to good order as soon as possible to protect your health from microorganisms, mold and bacteria that may grow and ultimately prevent further damage. Whether it is a flash flood, hurricane, heavy rains or water main break, EIPL has the equipment to handle the harshest environments and assist with proper restoration.

## THE DEHUMIDIFIER

EIPL dehumidifiers are effective solutions to environmental control problems. The Orion dehumidifier, with its 2 stage cooling process and temperature sensitive defrost control, ensures optimum performance throughout the unit's full operating temperature range.

Moisture is removed from the air through an efficient refrigeration process. The fan draws the moist air through and "Air to Air" heat exchanger, where the incoming air is pre-cooled. The air is then drawn through the evaporator coil which further cools the air below its dew point. Moisture forms on the evaporator coil and is collected in the condensate tray. The cooled air then passes through the hot condenser coil where it is reheated using the same energy removed during the cooling phase, plus the additional heat generated by the compressor.

The air is, therefore, discharged from the dehumidifier at a slightly higher temperature with a lower absolute humidity than that which entered. Continuous circulation of air through the dehumidifier gradually reduces the relative humidity within the area.



Ebac Industrial Products Incorporated, 700 Thimble Shoals Blvd.  
Suite 109, Newport News, VA 23606-2575

Tel: (757) 873-6800 Fax: (757) 873-3632 [www.ebacusa.com](http://www.ebacusa.com)

